

## CLAIMS

1. A device [110], comprising:
  - 2
  - a housing [155] having a first side [160] and an opposing second side [165],
  - 4 wherein the housing [155] comprises:
    - 6 an opening [170] extending from the first side [160] to the second side [165]; and
    - 8 multiple alignment pins [180] imbedded in the housing [155] and
    - 10 extending external to both first and second sides [160,165], wherein on
    - 12 the first side [160] the alignment pins [180] are capable of insertion into
    - 14 matching holes on an electronic probe [130], and wherein on the second side [165] the alignment pins [180] are capable of insertion into matching holes [185] on an electronic circuit assembly [120].
2. The device [110] as recited in claim 1, further comprising at least one
  - 2 fastener part [196] capable of attaching the electronic probe [130] to the housing [155].
3. The device [110] as recited in claim 2, wherein the fastener part [196]
  - 2 comprises a threaded screw hole [196] into which a screw [135] attached to the electronic probe [130] can be inserted.
4. The device [110] as recited in claim 1, wherein the at least one fastener
  - 2 part [196] comprises two fastener parts [196] .
5. The device [110] as recited in claim 4, wherein the fastener parts [196]
  - 2 each comprise a threaded screw hole [196] into which a screw [135]

attached to the electronic probe [130] can be inserted.

- 2           6.     The device [110] as recited in claim 1, wherein the axis of each alignment  
pin [180] is parallel to the axis of the opening [170].
- 2           7.     The device [110] as recited in claim 1, wherein on the second side [165]  
the alignment pins [180] are capable of attachment to the electronic  
4     circuit assembly [120] following their insertion into the electronic circuit  
assembly [120] matching holes [185].
- 2           8.     The device [110] as recited in claim 7, wherein attachment of the  
alignment pins [180] to the electronic circuit assembly [120] is effected  
4     by soldering the alignment pins [180] into the electronic circuit assembly  
[120] matching holes [185].
- 2           9.     The device [110] as recited in claim 1, wherein the electronic circuit  
assembly [120] is a printed circuit board [120].
- 2           10.    The device [110] as recited in claim 1, wherein the multiple alignment  
pins [180] comprise four alignment pins [180].
- 2           11.    The device [110] as recited in claim 1, further comprising:  
4               a first key [175], wherein when the first key [175] is aligned with a  
matching geometry on the electronic probe [130], entry of the electronic  
6     probe [130] into the opening [170] is enabled, otherwise entry is  
prevented.
- 2           12.    The device [110] as recited in claim 1, further comprising:

4 a second key [190], wherein when the second key [190] is aligned with a  
matching geometry [195] on the electronic circuit assembly [120],  
attachment of the device [110] to the electronic circuit assembly [120] is  
6 enabled, otherwise such entry is prevented.

13. The device [110] as recited in claim 12, wherein the second key [190] is  
2 an additional pin [190] imbedded in the housing [155] and extending  
external to the second side [165] and wherein the matching geometry  
4 [195] on the electronic circuit assembly [120] is a hole [195] into which  
the additional pin [190] is capable of insertion.

14. The device [110] as recited in claim 12, further comprising:  
2  
a first key [175], wherein when the first key [175] is aligned with a  
4 matching geometry on the electronic probe [130], entry of the electronic  
probe [130] into the opening [170] is enabled, otherwise entry is  
6 prevented.

15. The device [110] as recited in claim 14, further comprising at least one  
2 fastener part [196] capable of attaching the electronic probe [130] to the  
housing [155].

16. The device [110] as recited in claim 15, wherein the fastener part [196]  
2 comprises a threaded screw hole [196] into which a screw [135] attached  
to the electronic probe [130] can be inserted.

17. The device [110] as recited in claim 14, wherein on the second side [165]  
2 the alignment pins [180] are capable of attachment to the electronic  
circuit assembly [120] following their insertion into the electronic circuit  
4 assembly [120] matching holes [185].

- 2           18.    The device [110] as recited in claim 17, wherein attachment of the  
alignment pins [180] to the electronic circuit assembly [120] is effected  
4           by soldering the alignment pins [180] into the electronic circuit assembly  
[120] matching holes [185].
- 2           19.    The device [110] as recited in claim 14, wherein the electronic circuit  
assembly [120] is a printed circuit board [120].
- 2           20.    The device [110] as recited in claim 14, wherein the multiple alignment  
pins [180] comprise four alignment pins [180].